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VII. SECTION 10 - 510(K) SUMMARY

This summary of 510(k) substantial equivalence information is being submitted in accordance with the requirements of 21 CFR Part 807.92.

1. Applicant's Name and Address

Atlantis Components Inc.

25 First Street

Cambridge, Massachusetts 02141

Telephone Number:

617-661-9799

Fax Number:

617-661-9063

Contact Person:

Franklin Uyleman

Manager of Quality and Regulatory Affairs

2. Name of Device

Trade Name:

Atlantis™ Abutment for Nobel Replace Interface

Common Name:

Endosseous dental implant abutment

Classification Name:

Endosseous dental implant abutment 21 CFR 872.3630 Product code NHA

3. Legally Marketed Device to which Equivalence is claimed (Predicate Device)

Manufacturer	Device	510(k) Number
Atlantis Components	Atlantis Abutment and Abutment	K981858
Inc.	Screw	K023113
Nobel Biocare	Replace TiUnite	K020646
Nobel Biocare	Replace Ha Coated Implant	

4. Description of the Device

The devices covered in this submission are abutments which are placed into the dental implant to provide support for a prosthetic restoration. The subject abutments are indicated for cemented restorations.

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4. Description of the Device (continued)

The Atlantis™ Abutments for Nobel Replace Interface and abutment screws are made from Titanium grade Ti-6A1-4V ELI (Meets ASTM Standard F-136). The abutment is placed over the implant shoulder and is mounted into the implant with a screw. The abutments are compatible with Nobel Replace® Select Straight, Replace Select Straight One Stage, Replace Select Tapered and Replace Select Tapered One Stage for the 3.5 mm (NP), 4.3 mm (RP), 5.0 mm (WP) and 6.0 mm (WP) Implants.

5. Intended Use of the Device

The devices covered by this submission are abutments which are placed into a dental implant to provide support for a prosthetic reconstruction. The Atlantis Abutment is intended for use as an accessory to an endosseous implant to support a prosthetic device in a partially or completely edentulous patient. It is intended for use to support single and multiple tooth prosthesis, in the mandible or maxilla. The prosthesis can be cement retained to the abutment. The abutment screw is intended to secure the abutment to the endosseous implant.

Please note: Highly angled abutments (i.e. 30 degrees) on implants with diameters less than 4 mm are intended for the anterior region of the mouth and not intended for the posterior region due to limited strength of the implant.

6. Basis for Substantial Equivalence

The Atlantis™ Abutments for Nobel Replace Interface are substantially equivalent in intended use, material, design and performance to the Atlantis Abutments cleared under K981858 and Nobel Biocare Replace TiUnite Implants and Replace HA Coated Implants cleared under 510(k) K023113 and K020646 respectively.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

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Atlantis Components, Incorporated C/O Ms. Betsy A. Brown Consultant B.A. Brown & Associates 8944 Tamaroa Terrace Skokie, Illinois 60076

Re: K053654

Trade/Device Name: Atlantis™ Abutment for Nobel Replace Interface

Regulation Number: 872.3630

Regulation Name: Endosseous Dental Implant Abutment

Regulatory Class: II Product Code: NHA Dated: July 13, 2006 Received: July 17, 2006

Dear Ms. Brown:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers. International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/edrh/industry/support/index.html.

Sincerely yours.

Chiu Lin, Ph.D.

Director

Division of Anesthesiology, General Hospital.
Infection Control and Dental Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

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Indications for Use

510(k) Number (if Known) K053654

Device Name: Atlantis TM Abutment for Nobel Replace Interface

Indication for Use:

The Atlantis Abutment is intended for use as an accessory to an endosseous implant to support a prosthetic device in a partially or completely edentulous patient. It is intended for use to support single and multiple tooth prosthesis, in the mandible or maxilla. The prosthesis can be cement retained to the abutment. The abutment screw is intended to secure the abutment to the endosseous implant.

This device is compatible with the following manufacturers' implant systems: Nobel Biocare Replace Select Straight, Replace Select Straight One Stage, Replace Select Tapered and Replace Select Tapered One Stage.

Please note: This device may be used in an early load situation, but is dependent on the specific implant system and protocol used by the dental professional.

Highly angled abutments (i.e. 30 degrees) on implants with diameters less than 4 mm are intended for the anterior region of the mouth and are not intended for the posterior region due to limited strength of the implant.

Prescription Use X
(Part 21 CFR 801 SubpartD)

AND/OR

Over-The-Counter Use____(21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

ு of Anesthesiology, General Hospital,

con Control, Dental Devices

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